ASTRAL 16
Product Data Sheet

Astral 16 is a high-end audio-video processor and amplifier offering a unique Home Theatre experience. Equipped with 16 channels, 12 of which are amplified, it has 4 DSPs dedicated entirely to audio (filtering, equalisation, bass management, etc.). Managing all 3D audio flows (Dolby Atmos®, DTS:X™...), and with unlimited channel configuration (bi-amplification, etc.), Astral 16 will truly enhance the connected audio system.

ELAN® · DOLBY ATMOS · dts X™ · AURO 3D® AUDIO · CRESTRON · RTI · SAVANT · Control4

3D Audio and Video compatible as well as HD Audio
An uncompromising listening experience

3D audio upmixing of 2D multichannel audio formats
Experience your favourite films in 3D audio

7 HDMI inputs + 2 HDMI 4K UHD outputs, HDCP 2.2, including one eARC compatible
Compatible with the latest audio-video standards

16 audio channels / 12 x 200W under 8Ω + 4 balanced XLR outputs
Fully configurable channels (mono-amplification, bi-amplification, active loudspeaker management)

3 power supplies, 1 per group of 4 amplification channels:
Power always available across all channels

Key points
- Dedicated iOS application - simple and intuitive control
- Unlimited number of settings
- System calibration by Dirac Live® (built-in license) - analysis and active correction of the room's acoustics and the multichannel system
- Rack mounting kit supplied - flexible installation

FOCAL®

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Type	**16 channel audio-video processor and amplifier**	
Main features	Compatible formats	Dolby Atmos® / DTS:X™ / Auro-3D®
	Room Calibration	Powered by Dirac Live® : target curve editable from 20Hz to 20kHz for all channels (including subwoofers), phase correction full bandwidth 20Hz-20kHz on all channels (including subwoofers)
	"Remote Monitoring" fonction	
Multichannel / Surround Processing	Output channels	16
	Decoding / upmixing channels	up to 16 channels
	Input sampling rate supported	up to 192kHz
	Stereo downmix	
	Bass management	fully flexible
	Multi-subwoofer channels	Unlimited
	Multi-way crossover	(6-12-18-24-36-48dB/oct filter slopes)
	20 Parametric EQ per channel	
HDMI	HDMI inputs	7: HDMI 2.0 / HDCP 2.2
	HDMI outputs (mirror)	1: HDMI 2.0 / HDCP 2.2 (with eARC)
		2: HDMI 2.0 / HDCP 2.2
	Supported video format	Up to 4K UHD
	High Dynamic Range	HDR10 / HLG
	Color Space and Subsampling	4:4:4, 4:2:2, 4:2:0
	Deep Color	12 bpc
	Max resolution supported	4K 60fps 4:4:4 8bpc
	HDMI	3D / 4K / eARC
Audio Inputs	Digital input	3 x coaxial, 3 x optical
	Analog stereo inputs	4 x RCA inputs
Amplified Audio Outputs	Amplified main outputs	12
	Analog main outputs, balanced	4 x XLR
	Stereo downmix outputs, balanced	2 x XLR
	Technology	Class D
	Amplified channels	12
	Continuous power output, per channel, à 0.1%THD	8Ω / 4Ω / 2.7Ω
	3 channels driven simultaneous,	200W / 400W / 650W
	6 channels driven simultaneous,	200W / 350W / 350W
	12 channels driven simultaneous	200W / 300W
	Continuous power output, per channel, à 1%THD	8Ω / 4Ω / 2.7Ω
	3 channels driven simultaneous,	250W / 500W / 725W
	6 channels driven simultaneous,	250W / 500W / 500W
	12 channels driven simultaneous,	250W / 300W
	SNR (P-rated)	110dB
	THD (from 1W to P-rated -1dB)	<0.03%
Set-Up Management	Configurable multi-theater management	
	Configurable audio zones management	
	Unlimited Theater and audio zones listening presets	
	Backup and restore of set-up	
	Firmware update via USB/network	
Control Inputs / Outputs	USB type A	2
	Ethernet	
	Output trigger control	4 (out)
	IR remote ports, in/out	1 / 1
Control / Custom Installation	Web-based product configurator	
	TCP/IP API based control	
	Focal Remote iPad control application	
	Home automation	Crestron, Control4, Savant, RTI home automation
	Front panel display	TFT 4.3"
Power Supply	Voltage range	100V to 240V
	Type	SMPS
	Range selection	Universal
Supplied with	Calibrated measurement microphone and tripod, Dirac Live license, 32.9ft (10m) cable with infra-red captor, mounting kit.	
Dimensions & weight	Net weight – with stands (kg/lbs)	20.0 / 44.1
	Net weight – with accessories for Rack (kg/lbs)	23.0 / 50.7
	Dimensions with stands (h x w x d) (cm/inches)	19.10 x 47.90 x 49 / 7.52 x 18.86 x 19.29